

Abstract of the Disclosure

An apparatus and method for searching color and shape of
5 image data based on a natural language with Fuzzy concept is
disclosed. The apparatus for retrieving includes: a dictionary
storing unit for storing a dictionary used for processing a
natural language; a color/shape threshold storing unit for
storing color histograms mapped to color related words and edge
10 information corresponding to shape related words; a query input
unit for receiving a query sentence which describes the color
and the shape of the image by using a natural language; an
analyzing unit for analyzing the query sentence based on the
dictionary information and generating analyzed words; a
15 color/shape recognizing unit for recognizing whether the
analyzed words represent the color or the shape; a color/shape
threshold database constructing unit for mapping and storing
color histograms to color related words and storing edge
information corresponding to shape related words; a color/shape
20 threshold retrieving unit for retrieving the color histograms
and the edge information corresponding to the analyzed words
from the color/shape threshold storing unit; and a retrieving
result output unit for providing image data searched in the
color/shape threshold retrieving unit.